

MATERIAL SAFETY DATA SHEET: DRAIN TAIN LIQUID DRAIN OPENER
INDUSTRIAL SOAP COMPANY 2930 MARKET STREET ST. LOUIS, MO 63103
ORIGINAL DATE: 08/10/90 LATEST UPDATE: 10/20/00

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SECTION VII REACTIVITY DATA PRODUCT IS: Stable

CONDITION TO AVOID\INCOMPATIBILITY: With strong acids, without dilution or agitation, will produce a violent or explosive reaction. Will react with leather and wool, also aluminum, zinc, tin and alloys containing these metals, nitrocarbons, halocarbons, aldehydes, etc.

HAZARDOUS DECOMPOSITION PRODUCTS: Solutions of caustic soda react with reducing sugars (e.g. in food soils when used in cleaning compounds) to form hazardous carbon monoxide. Contact with metals may release flammable hydrogen gas. HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION VIII SPILL AND LEAK PROCEDURES

Small quantities: Neutralize with dilute acidic solution (dilute-acetic) before wiping up or flushing away. CAUTION: Spill area will be slippery. Wear protective clothing and have running water should be available. Before flushing residue and/or product into local sewer system, check pH of acceptable effluent water in accordance with local water treatment plant.

WASTE DISPOSAL METHOD: If not diluted and neutralized, this product can become a hazardous waste as designated by the Environmental Protection Agency under authority of the RCRA. Dispose of in accordance with local, state and federal regulations.

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SECTION IX D.O.T. SHIPPING INFORMATION

This product will be ship in cases of quarts for ORM-D CONSUMER COMMODITY SHIPMENT ONLY!!!!!!!!!!!!!!!!!!!!11

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SECTION X ADDITIONAL INFORMATION STORAGE AND HANDLING: KEEP OUT OF REACH OF CHILDREN. Do not store in food areas. Keep containers closed. Do not mix this solution with acids, chlorine bleach, or other oxidizing agents Use according to label directions. Do not get in eyes, on skin or on clothing. Wear rubber gloves to minimize skin contact/goggles if eye contact is likely. Wash thoroughly after handling. Store in cool, dry place. KEEP FROM FREEZING. To dispose of container: Rinse empty container, replace lid and dispose of in trash. Do not reuse empty containers. Never add water directly to solution add solution to water.

HMIS RATING: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1
/ PERSONAL PROTECTIVE EQUIPMENT: H

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DATE ISSUED: 10/20/00 PREPARED BY: Regulatory Affairs

This supersedes any and all Material Safety Data Sheet issued prior to the above date. Please update your files with this most current sheet.

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SECTION III FIRST AID, CONTINUED

SKIN: Flush with water, immediately for 15 minutes. Flush head and face thoroughly before removing goggles. Remove contaminated clothing under the shower. This washing may be followed with a rinse of vinegar. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear which cannot be decontaminated. Seek medical attention, immediately.

INHALATION: Remove person to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if breathing has stopped. Get medical attention immediately.

INGESTION: DO NOT induce vomiting. Give large quantities of water to cause dilution in stomach. If available, give several glasses of milk. Do not give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION IV SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Under normal use conditions should not be necessary.

VENTILATION REQUIRED: Use in well ventilated area, local exhaust.

PROTECTIVE CLOTHING: EYES: Chemical splash goggles. SKIN: Rubber gloves. Safety shower\Eye bath or abundant running water available. Wear adequate protective clothing to minimize skin contact.

ADDITIONAL PROTECTIVE MEASURES: Neutralization supplies, (3% acetic acid preferable or vinegar) and abundant running water should be closed at hand in working and storage area.

SECTION V FIRE & EXPLOSION HAZARD DATA

FLASH POINT\FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Use carbon dioxide, "alcohol" foam or dry chemical where this product is used or stored.

SPECIAL FIRE FIGHTING PROCEDURES: Cool containers with water, using care not to splatter or splash the material. UNUSUAL FIRE AND EXPLOSION HAZARDS: Highly flammable hydrogen is formed by reaction of concentrated solutions of caustic soda with aluminum, tin, zinc, and alloys containing these metals. Violent reaction may occur when water is added to concentrated caustic soda. May ignite combustible materials or organic matter on contact.

SECTION VI PHYSICAL DATA

BOILING POINT: 289 Dgr. F.

SPECIFIC GRAVITY (WATER=1): 1.132

POUNDS PER GALLON: 9.45

VAPOR PRESSURE (MM HG): N/A

VAPOR DENSITY (Air=1): N/A

EVAPORATION RATE: N/A

% VOLATILE BY VOLUME: N/A

SOLUBILITY IN WATER: Complete

pH: 13

APPEARANCE AND ODOR: Liquid, clear, colorless/no odor.

6850-055-020

MATERIAL SAFETY DATA SHEET

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PHONE: (314) 241-6363

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PRODUCT IDENTIFICATION:

PRODUCT NAME: DRAIN TAIN LIQUID DRAIN
OPENER

CHEMICAL FAMILY: Alkali

ORIGINAL DATE: 08/10/90

LATEST UPDATE: 10/20/00

FORMULA: Proprietary

This product will ship in 12\ 1 quart cases only.....
SHIP AS ORM-D CONSUMER COMMODITY ONLY!!!!!!!!!!!!!!!!!!!!!!

S.A.R.A. INFORMATION:

HAZARDS: Fire: N Pressure: N Reactivity: N Acute: Y Chronic: Y

PHYSICAL DATA: Mixture: Y Pure: N Solids: N Liquids: Y Gas: N

SECTION I HAZARDOUS INGREDIENTS

MATERIAL	% BY WEIGHT	CAS #	OSHA PEL - ACGIH TLV
Sodium Hydroxide	17%	1310-73-2	PEL/TLV/TWA 2mg/m ³ ceiling 15 minute ceiling 2mg/m ³ NIOSH Recommendation OSHA/ACGIH

SECTION II HEALTH HAZARDS TLV: See Section I

EYES: Major Potential Hazard: This product is destructive to eye tissue on contact. Will cause severe burns that result in damage to the eyes and even blindness.

SKIN: Major Potential Hazard: This product is destructive to tissues contacted, producing severe burns and temporary loss of hair. Chronic overexposure may consist of multiple areas of superficial destruction of the skin or dermatitis. 4% solution may not cause irritation and burning for several hours, while 25-50% solutions can cause this effect in less than 3 minutes.

INHALATION: Airborne concentrations of dust, mist, or spray may cause damage to the upper respiratory tract and even to the lung tissue proper which could produce chemical pneumonia, depending upon severity of exposure. Chronic overexposure to spray or mist may result in irritation of tissue damage.

INGESTION: This product can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach if swallowed, can prove fatal.

SECTION III FIRST AID

EYES: Immediately flush eyes with large quantities of water, periodically lifting upper and lower lids to ensure washing of entire surface. Washing eyes within one minute is essential to achieve maximum effectiveness. Seek medical attention immediately. Contact lenses should not be worn when working with this chemical.